



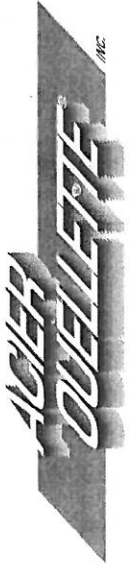
Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0040613	ACI001-VC	1	1	Net 30	M316R1.000	316 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				60	8/8/2018	67		S099810	Stock	8/3/2018	\$ 11.93 / ft	13		\$799.31	Acier Ouellette Inc.
		3			M304R0.375	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				48		53		S099811	Stock	8/3/2018	\$ 1.19 / ft	13		\$63.16	Acier Ouellette Inc.
		4			M6061T6B1.500X2.500	6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S099812	Stock	8/3/2018	\$ 13.92 / ft	13		\$167.04	Acier Ouellette Inc.
		5			M6061T6S1.250X5.000	6061T6 Bar 1.250 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				6	8/10/2018	6		S101443	Stock	8/10/2018	\$ 37.09 / ft	6		\$222.56	Acier Ouellette Inc.
		6			M6061T6B2.000X04.500	6061T6 Bar 2.00 X 4.500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12	8/8/2018	12		S099813	Stock	8/3/2018	\$ 49.62 / ft	13		\$595.44	Acier Ouellette Inc.

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		7			M1018B0.375x2.500	1010-1025 Steel Bar .375 X 2.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						13		S099814	Stock	8/3/2018	\$ 2.99 / ft	13		\$37.87	Acier Ouellette Inc.
		8			M303R0.750	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				36		36		S099815	Stock	8/3/2018	\$ 5.14 / ft	13		\$186.33	Acier Ouellette Inc.
		9			M303R1.000	303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12		12		S099816	Stock	8/3/2018	\$ 8.70 / ft	13		\$104.43	Acier Ouellette Inc.
Total:										198										\$1,657.38	

Plex 8/16/2018 9:18 AM dart.Tollis.Andrew



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO00102221

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N 

CLI0001056

Date 2018/07/27

Delivery date 2018/08/03

Your order N  040613

Processed by Eric Kaehlert

Salesman

OUELLETTE VALLEYFIELD

Net 30 Days

Credit Terme

Product Description	Weight	Qty	UM	PCS NB					Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT		
1 ROUND SS 1 316 (R) RSS-1316 5 X 12' R/L ** CERTIFICATE ** HT# CH-7367 M LINE#1 AC18475-MM-2018-07-30	160.20	60.00	PL_\$CLB										
2 ROUND SS 3/8 304 (R) RSS-38 4 X 12' R/L ** CERTIFICATE ** HT# 1711164 M LINE# 3	18.05	48.00	PL_\$CLB										
3 FLAT ALU 1 1/2 X 2 1/2 6061-T6 * FAL-112212 2439 1 X 12' ** CERTIFICATE ** HT# 3B6350 M LINE# 4	52.87	12.00	PL_\$CLB										
4 ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453	53.88	3.00	PI2_\$CLB										

AESCL



DELIVERY - CLIENT

Copy

CO0010222

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
SAW CUT 1 PC 5" X 72" ** CERTIFICATE ** HT# 70190093 HT# 537116567 LINE #5		1.00	UN							
TRANSIT ST-JEROME 01-08										
5 FLAT ALU 2 X 4 1/2 6061-T6 RANDOM NS FAL-2412-V 8448 1 X 12' ** CERTIFICATE ** HT# 05071802 HT # 05131801 LINE # 6	126.96	12.00	PL \$CLB							
AC18477-TH-2018-07-30										
6 FLAT CR 3/8 X 2 1/2 1018 (R) FCR-38212 2898 1 X 12' R/L ** CERTIFICATE ** HT# 152915 LINE # 7	38.26	12.00	PL \$CLB							
AC18477-TH-2018-07-30										
7 TUBE HSS 3/4 X 3/4 X 0.065 * 0635 T-3434065 6057 1 X 24' STOCK HEAT : 6145C4 (not ordered)	14.64	24.00	PL \$CLB							
8 ROUND SS 3/4 303 (R) RSS-34303 5761 3 X 12' R/L ** CERTIFICATE ** HT# 53049 LINE # 8	54.07	36.00	PL \$CLB							



DELIVERY - CLIENT

Copy

CO0010222C

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only						
				CMD	EXP	B/O	IN	I	S	C	OUT		
9 ROUND SS 1 303 (R) RSS-1303 1 X 12' R/L ** CERTIFICATE ** HT# 620M LINE# 9	32.04	12.00	PI \$CLB										
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.				Total Weight (Lbs) : 550.97 NIR : R-109516-6									
Prepared By : A.E.S.				Delivered By :		Verified By :		Date Y M D					
Customer's Signature C.L.													



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040613**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040613

PO Date: 7/26/18

Due Date: 8/3/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
JUL 27 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quotation no. sou0122727 and sou0122536

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M316R1.000		316 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	8/3/18	60 ft	0 ft	60 ft	\$11.93/ft	\$715.80
								67ft				
											AUG 03 2018	
2		M4130NT0.500W.083		4130 Round Tube .500 X .083W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	-	8/3/18	80 ft	0 ft	80 ft	\$15.95/ft	\$1,276.00
3		M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	8/3/18	48 ft	0 ft	48 ft	\$1.191666/ft	\$57.20
								53ft				
											AUG 03 2018	
4		M6061T6B1.500X2.500		6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	8/3/18	12 ft	0 ft	12 ft	\$13.92/ft	\$167.04
								12ft				
											AUG 03 2018	
5		M6061T6B1.250X5.000		6061T6 Bar 1.250 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	8/3/18	6 ft	0 ft	6 ft	\$37.09333/ft	\$222.56
								6ft				
											18/08/10	

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6		M6061T6B2.000X04.500		6061T6 Bar 2.00 X 4.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	8/3/18	12 ft	0 ft	12 ft	\$49.62/ft	\$595.44
Line Item Note non returnable												
7		M1018B0.375x2.500		1010-1025 Steel Bar .375 X 2.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	-	8/3/18	12 ft	0 ft	12 ft	\$2.99/ft	\$35.88
8		M303R0.750		303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	-	8/3/18	36 ft	0 ft	36 ft	\$5.14/ft	\$185.04
9		M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	-	8/3/18	12 ft	0 ft	12 ft	\$8.7025/ft	\$104.43
Grand Total:											\$3,359.39	

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 7/27/18 11:08 AM dart.lavoie.chantal



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. 03 100 011022

ADM. OFFICE: 504, SUKH SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA

Tel.: 91-22- 66290600. Fax.: 91-22-66290633/34

Website : www.chandansteel.net

Email : cst@chandansteel.net

I/c. No.:

I/c. Date:

WORKS: PLOT NO. 31 TO 36, 43, 46, 48, & 49/2, 142

(EXP. AREA) GIDC, UMBERGAON & SURVEY NO. 102/2 & 3, VILLAGE,

DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAAACC4713B1ZG

F824 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS				Test Certificate No. : EXP/01209 - 09/2017-2018							
				Date of Issue : 24.01.2018							
				P. O. No. : BN5943							
				SC_No. & Date : 17-18/00448, Dt.18.11.2017							
				Invoice No. & Date : EXP/01209/2017-18 Dt.24.01.2018							
LENGTH				Net Wt.							
				Ordered	Actual						
				12' - 14'	12' - 14'						
				3573 Lbs.							
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route							
CH-7367	316L	1"	h9	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	16.00	2.00	10.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	18.00	3.00	14.00	-	-	-
Results	0.024	0.38	1.52	0.041	0.013	16.90	2.02	10.07	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation	Reduction of Area		Hardness			
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa (Rm)		%	%		(HB)			
Min.	170		485		30	40		-			
Max.	-		-		-	-		-			
Results	392		688		42	64		211-214			
Remarks:											
1. Cold drawn & Centreless Ground.											
2. Solution annealed at 1050 °C.											
3. PMI test done 100% & found Satisfactory.											
4. Material is free from radio-active contamination.											
5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.											
6. The material hardness is in Accordance with NACE MR 0175/ISO 15156-1:2015 and NACE MR 0103-2007.											
7. The material conforms to ASTM A276-15/A182-15/A479-15 Specifications.											
8. Location of sample - Off Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.											
9. Marking details - Company Logo, Size, Grade & Heat No.											
10. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.											
11. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 14 & 15											



It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ANSI 304/316 SS ROUND BAR
(NOTE: ANSI 303 NOT ACCEPTABLE)

A SPECIFICATION: ASTM A276
PART NUMBER: M304R0.000 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
10/23/25

B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-000A	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	QA		
CHECKED	JS		
MFG. APPR.	M304R		
APPROVED	AM		
DE APPR.	AM		
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO.		SHEET 1 OF 1	
TITLE		SCALE	
304/316 ROUND BAR		NTS	
CONVERTED FROM BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE DRAWING ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M316 L.000
 DATE: 18/08/07

PO / BATCH NO.: P0040613/5049810

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 67'
 QUANTITY INSPECTED: 67'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	ASTM A276
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	41: CH-7367
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/07</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



#5768 57045

CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

P.O 16802

ISO 9001:2008 CERTIFICATE No. 0110011022

ADM. OFFICE: 304, SUKHSAGAR, N. B. PATIL MARG, MUMBAI-400 002, INDIA

Tel: 91-22-66290600. Fax: 91-22-66290633/34

Website : www.chandansteel.net

Email : csl@chandansteel.net

WORKS: PLOT NO. 31 TO 36, 45/46/48, & 49/2, 142

(EXP. AREA) GIDC, UMBERGAON & SURVEY NO. 102/2 & 3, VILLAGE,

DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAACC4713B1ZG

I/c. No.:

I/c. Date:

F824 QC 09A / 02/10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 : 2005

PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS					Test Certificate No. : EXP/01152 - 06/2017-2018						
					Date of Issue : 03.01.2018						
					P. O. No. : MN5942						
					SC No. & Date : 17-18/00447, Dt. 08.11.2017						
					Invoice No. & Date : EXP/01152/2017-18 Dt. 03.01.2018						
					LENGTH		Net Wt. 2965 Lbs.				
					Ordered	Actual					
					12' - 14'	12' - 14'					
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route							
1711164	304L	3/8"	h9	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.028	0.37	1.57	0.039	0.016	18.55	-	8.04	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation		Reduction of Area		Hardness		
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa (Rm)		%		%		(HB)		
Min.	310		620		30		40		-		
Max.	-		-		-		-		-		
Results	615		788		36		65		239-242		
Remarks:											
1. Cold drawn & Centreless Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material is free from radio-active contamination. 5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory. 6. The material conforms to ASTM A276-15/A182-15/A479-15 & ASME SA479-13 Specifications. 7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round. 8. Marking details - Company Logo, Size, Grade & Heat No. 9. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin. 10. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 21 & 22											



It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

ASTM A276
SPECIFICATION:
PART NUMBER: M304R0.750 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
CT 123/23/140

B	REFORMAT DWG. ADD SPECS (ZIN D6-1). REF PAR 09-020A	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	97		
CHECKED	97		
MFG. APPR.	97		
APPROVED	97		
DE APPR.	97		
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M304R		SHEET 1 OF 1	
TITLE 304/316 ROUND BAR		SCALE NTS	
COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. NO PARTS OF THIS DRAWING ARE TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R 0.375

PO / BATCH NO.: P0410613 / S049811

DATE: 18/08/07

MATERIAL CERT REC'D: KAC

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 53'

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 53'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	ASTM A276
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	HA: 1711164
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/07</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2439

FAL-112212

50599

15087

MILL TEST

RH / TO	\$795	CERT CODE:	9	DIE NUMBER	S 4660	DATE OF SHIPMENT	Oct/19/2017	MANIFEST NO.	210182 - 9	379633
SHIP TO	1392	CUSTOMER PO	C74902	ALLOY	6061	TEMPER	T6511	MADE IN CANADA		
SO DESCRIPTION	2.5 x 1.5 FB	CUSTOMER PART NUMBER	V836661	PART DESCRIPTION	HOUSE ACCOUNTS					
				CERTIFICATION ASTM B221-14 - AMS QQA 200/8						

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/13/2017	42.30	38.40	12.80	89.0,89.2,89.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Other
386350	A.11	6061	0.6	0.15	0.21	0.04	0.87	0.07	0	0.01	0	0
												0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-02
NAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B		REV. B	
TITLE 6061-T6 BAR		SHEET 1 OF 1	
SCALE NTS		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B1.500x2.500
 DATE: 18/08/07

PO / BATCH NO.: 60010613/5049812

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM B221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT-3B6350
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>MT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/07</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2224

MILL TEST CERTIFICATE	No: 1726 Date: 1/23/2018	CERTIFIED BRAC-IQNet ISO 9001/2015 No.10/valid 2020	vimetco alro SLATINA
----------------------------------	---	---	--

CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 2224
 BILL OF DELIVERY : 80348517
 TRUCK/CONTAINER : MSCU 5764780

MATERIAL : ALUMINIUM PLATES
 ALLOY : 6061
 LOT/DIMENSIONS (mm): 70190093 . . . 1.25"THX48.5"WDX144.5"LT

TEMPER: T651

ACCORDING TO ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

ACTUAL MECHANICAL PROPERTIES													1 MPa = 1 N/mm2 = 0.145 ksi = 0.102 kgf/mm2		
1 lbs = 0.4536 kg					UTS		YTS		Elong.%						
					KSI		KSI		50mm						
Specified values:					min.	max.	min.	max.	min.						
					42		35		8						
LOT / BATCH		CASE		NET WEIGHT lbs		Measured values:									
70190093		590199;591435;		8,783.224		46.9		40.4		14.5					
S37116567		591437;592325				46.2		39.4		14.5					

ACTUAL CHEMICAL ANALYSIS %												
BATCH	SI	Fe	Cu	Mn	Mg	Cr	NI	Zn	Ti	Ga	V	Al
S37116567	0.61	0.39	0.26	0.1	0.99	0.18	0.009	0.12	0.021	0.011	0.018	REM. REM REM
Acc. Standard	Min.	0.4	0.15		0.8	0.04						REM.
	Max.	0.8	0.7	0.4	0.15	1.2	0.35	0.05	0.25	0.15	0.05	
Remarks:						Other- Each- Max.: 0.05			OthersTotal- Max.: 0.15			

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2015; AMS-QQ-A-250/11:1997
 We hereby certify that the material detailed herein has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperatures variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminum Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.

Marius Olteanu, Eng.
 SC ALRO SA SLATINA
 Punct de lucru Slatina
 Str. Milcov Nr.1, Jud. Galati
 Serv. Inspectia Calitatii

ALRO S.A. No.116, Pitești Street Phone: +(40) 0249 435 117; 0249 432 956 alro@alro.ro
 230048-Slatina-ROMANIA Fax: (40) 0249 411 467; 0249 415 992 www.alro.ro

cod 11/PO-051/Rev.4/2012

PAG 1/4

SPECIFICATION CONTROL DRAWING

C PURCHASE MATERIAL: 6061-T6/T62 T651 ALUMINUM SHEET OR PLATE

SPECIFICATION:
QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4026 OR 4027
OR ASTM B209

C PART NUMBER: M6061T6S XXX X W.WWW
THK WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

C PREFERRED SIZE: XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN DB-1). REF PAR 08.02.0A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO. M6061T6S
SHEET 1 OF 1
SCALE NTS
6061-T6 SHEET/PLATE SPEC
REV. C
SHEET 1 OF 1
DATE 17.12.13
APPROVED

RELEASED
2018 MAR 13
ECS 18-606

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T651.250x5.000

PO / BATCH NO.: P0040613/S10K143

DATE: 18/08/16

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.250"

QUANTITY RECEIVED: 6ft

THICKNESS RECEIVED: 1.250"

QUANTITY INSPECTED: 6ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<u>ASTM B209</u>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<u>LT: 70190093 537116567</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: AT

SIGNED OFF BY: _____

DATE: 18/08/16

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8448 CO 10220 Dast P.O. 184777



Service Center Metals

5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
950630	6

MANIFEST NUMBER 368014
CUSTOMER PO 5400400638
CUSTOMER PART NUMBER ALREC00219
Quantity Certified 1,154 lbs 9 pcs

DIE NUMBER MRB0938
ALLOY/TEMPER 6061-T6511
DESCRIPTION MQRB 2.000x4.500

DATE OF SHIPMENT 5/23/2018
SALESPERSON D. Schroeder (Canada)

CERTIFICATION
ASTM-B221-14 Stencil Cont
SPECIFICATION
RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant

SCM is ISO 9001-2015 certified

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
			min max	min max	min max
1	201809057	5/17/18	49.40 49.40	45.70 45.70	16.00 16.00

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others		Melt Source:
												Each	Total	
05071802	201809057	6061	0.76	0.36	0.32	0.10	0.88	0.09	0.09	0.03	97.37	0.05	0.15	United States of America
05131801	201809057	6061	0.74	0.37	0.31	0.10	0.87	0.09	0.10	0.03	97.39	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services
Print Date: 5/23/2018
Rev 3/14/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6511/T62 ALUMINUM BAR

SPECIFICATION:
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
 AD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.09
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6B	REV. B
TITLE 6061-T6 BAR	SHEET 1 OF 1
SCALE NTS	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML061TL62.000x04.500
 DATE: 18/08/07

PO / BATCH NO.: P0040613/5049813

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.000"
 THICKNESS RECEIVED: 2.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	MT: 05071802 05131801
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/08/07</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2898

FCR-38212

TRA 2344
50293

NUEVA INCAL, S. A.
aceros calibrados

Golkibarra, 24 - Apartado 13
48300 GERNIKA - BIZKAIA Spain
Teléfonos (34) 84 625 17 12 - 18
Fax (34) 84 625 46 28
nuevaincal@nuevaincal.com
www.nuevaincal.com



CERTIFICADO DE CALIDAD

Destinatario:

LES ACIERS TRANSBEC

Material:

COLD ROLL SAE 1018. ACCORDING TO ASTM A108

CERTIFICAMOS:

Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán N° EX/4.514 y Frs. N° A/21.800 corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S./Pedidos N°	Composición Química de la colada									Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C. %	Mn. %	Si. %	S. %	P. %		Re N/mm2	Rm N/mm2	A %
MN-45448	2 X 1/4		580842	0,16	0,72	0,17	0,023	0,014		330,00	500,00	30,00
MN-45448	2-1/2 X 2		160691	0,17	0,79	0,17	0,004	0,016		582,00	608,00	18,00
MN-45448	6 X 1/2		161361	0,18	0,73	0,23	0,006	0,017		558,00	586,00	13,00
MN-45448	6 X 1		161366	0,17	0,74	0,17	0,005	0,016		556,00	583,00	15,00
MN-45448	8 X 3/4		150394	0,18	0,68	0,21	0,003	0,016		549,00	575,00	10,00
OU-46535	2-1/2 X 3/8	FCR-38212	152913	0,16	0,72	0,20	0,004	0,015		703,00	722,00	15,00
OU-46535	3 X 2	FCR-23	161604	0,16	0,78	0,17	0,003	0,020		570,00	598,00	16,00
OU-46535	6 X 1	FCR-10	154369	0,16	0,78	0,13	0,007	0,018		573,00	601,00	15,00
PAJ-46638	6 X 1		161366	0,17	0,74	0,17	0,005	0,016		556,00	583,00	15,00
PAR-46164	6 X 3/8		160520	0,15	0,71	0,18	0,006	0,017		555,00	580,00	8,00
PAR-46186	2-1/2 X 2		160691	0,17	0,79	0,17	0,004	0,016		582,00	608,00	18,00
PAR-46186	6 X 1/2		161361	0,18	0,73	0,23	0,006	0,017		558,00	586,00	13,00
PAR-46464	1 X 1/2		578592	0,15	0,76	0,18	0,030	0,015		325,00	500,00	33,00
PAR-46495	2 X 1/4		580842	0,16	0,72	0,17	0,023	0,014		330,00	500,00	30,00
PAR-46495	5 X 1/2		161261	0,18	0,74	0,17	0,006	0,018		561,00	589,00	13,00

Gornika, 29 de Noviembre de 2.016

Responsable de Calidad



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION: MIL-S-7097 OR ASTM A108

PART NUMBER: M1018-R-D-DDD WHERE D DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M1018-R0.875

TOLERANCES:

PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1.5" INCL. -0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24
MPO

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.09.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M1018-R			
TITLE 1018-1025 ROUND BAR			
SCALE NTS			
REV. B SHEET 1 OF 1			
COPYRIGHT © 2001 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M101880375X2.500

PO / BATCH NO.: P0040613/5099 814

DATE: 18/08/16

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 12.667 ft

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 12.667 ft

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A108
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	47152915
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AK</u>	SIGNED OFF BY: _____
DATE: <u>18/08/16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A582

PART NUMBER:

M303R0.DDD

DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
NR

B	REFORMAT Dwg. ADD SPECS (ZN D8-1), REF PAR 08-020A	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M303R
TITLE	303 ROUND BAR
SCALE	NTS
SHEET 1 OF 1	
REV. B	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 303RD-750

PO / BATCH NO.: P0040613/5099815

DATE: 18/08/07

MATERIAL CERT REC'D: ✓

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 36.25'

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 36.25'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ALUM A583
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT: 5J044
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/07</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8519.



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

RSS-1303

51432

17336

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

METALLURGICAL TEST REPORT

Certificate: 371391 11

Customer: 007080 003

Date: 1/15/2018 Page: 1

Steel: 303

Finish: CD

Your Order: MN6001

NAS Order: IN 0257533 09 Heat Treat Code: 44,534

Corrosion:

Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/16
AMS 5640V TYPE 1, Q38-7643 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAP+AOD+CC. NO WELD REPAIR. MELTED AND MPG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Std #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BJ1762 6		1.0000		1.073	144.00	11	1	

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
CHEMICAL ANALYSIS CH(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/14a

NAS Heat	CH	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
620M	US	.026	.09	17.11	.31	1.92	.268	.036	8.53	.031
		S %	SI %							
		.3350	.37							

MECHANICAL PROPERTIES

Product Id	1 4 0 1 C 2	HB	.2YS	UTS	RA	%	Elong % 4D
BJ1762 6	RL	224.0	80.28	106.52	34.99		25.11

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/15/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:
PART NUMBER:

ASTM A582
M303R0.DDD

DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
NR

B	REFORMAT Dwg. ADD SPECS (ZN D8-1). REF PAR 08-02A	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R		REV. B	
TITLE 303 ROUND BAR		SHEET 1 OF 1	
DATE		SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303 R1.000
 DATE: 18/08/07

PO / BATCH NO.: P0040613/S099816

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	ASM A582
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	HT-620M
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/08/07</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in